Sun Fire™ 6800/4810/4800/ 3800 Systems Product Notes

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Product Notes

These Product Notes contain important information and late-breaking news for Sun Fire 6800/4810/4800/3800 systems. This document contains the following sections:

- General
  - Supported/Unsupported Features
  - Supported Veritas Products
  - Denmark and Switzerland Caution
  - cPCI Card Ejection Lever Jams
  - Fan Speed Message
  - Firmware On Replacement Boards
  - Sun Fire Cabinet Fan Tray Power Switches
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- Known Sun Fire 6800/4810/4800/3800 System Limitations
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General

Supported/Unsupported Features

- Solaris 8 4/01 is the minimum version of the Solaris operating environment compatible with Sun Fire 6800/4810/4800/3800 systems.
- Adding or removing a fan tray or power supply to or from resources with an active domain is currently supported.
- Adding or removing a system board to or from an active domain is not currently

supported.

- System controller has clock fail over capability only. The entire platform will have to be taken down if you want to replace a failing System Controller board.
- Adding cPCI option cards that are not part of an active domain (Hot Insertion) will be supported on the latest revisions of the following supported cPCI option cards.

TABLE 1

	Hot Insertion **not** supported	Hot Insertion Supported	
(X)1232A	501-5570-05 or below	501-5570-06 and above	OPT INT CPCI3U 10/100BASET/FW SCSI NIC
(X)1234A	501-5502-07 or below	501-5502-08 and above	OPT QFE cPCI/3U CARD
(X)1266A	501-5483-05 or below	501-5483-06 and above	OPT cPCI/3U SUNATM 155MMF
(X)1268A	501-5564-06 or below	501-5564-07 and above	OPT cPCI/3U SUNATM 622 MMF NIC
(X)6748A	375-0118-01 or below	375-0118-02 and above	OPT cPCI Dual FC-AL HBA

Supported Veritas Products

The following Veritas System Software Products are supported on Sun Fire 6800/4810/4800/3800 systems.

- VxVM 3.1.1
- VxFS 3.3.3ga_03 and VxFS 3.4

Denmark and Switzerland Caution

Caution – To comply with Denmark and Switzerland national requirements customers in these countries who receive a standalone Sun Fire 3800 system (shipped without a rack) must provide a means to connect the system to a pluggable type B power circuit. The system exceeds the rating requirements for pluggable type A equipment.

cPCI Card Ejection Lever Jams

cPCI cards can jam in the cPCI assembly if improperly handled.

When inserting a cPCI card press on the front panel to completely seat the card in the I/O assembly then push the lever in to lock the lever in place. Do not press on the lever when inserting the card. When removing a cPCI card press the red lever lock in the lever sideways to unlock the lever, press the lever outward to eject the card then slide the card out of the slot.

Refer to the *Sun Fire 6800/4810/4800/3800 Systems Service Manual* for more details.

Fan Speed Message

Fan speed message says “WARNING” instead of “NOTICE” when the fan changes speed. The fans will go from low to high speed when either CPU, AISC or board temperatures cross 80C, 95C and 65C respectively. The system is OK and still within the thermal specification when this “WARNING” message appears.

Firmware On Replacement Boards

After installing a board or assembly the service provider must check the firmware version on the new board or assembly using the `showboards -p proms` command to determine if the firmware needs to be updated. If an update is required use the system controller `flashupdate` command. Refer to the *Sun Fire 6800/4810/4800/3800 System Controller Command Reference Manual* for details on the `flashupdate` command.

Sun Fire Cabinet Fan Tray Power Switches

If the Sun Fire cabinet fan trays do not work make sure that the fan trays are switched on. The fan tray power switches are located in the back of each cabinet fan trays below the power cord socket.

Documentation Issues

Sun Fire 6800/4810/4800/3800 Systems Service Manual Corrections

- The order that CPU/Memory Boards are populated was reversed after the *Sun Fire 6800/4810/4800/3800 Systems Service Manual* (Appendix B-6) went to press. The correct way to populate the boards:

  The Sun Fire 6800 CPU/Memory boards are populated from right to left, beginning with SB5 on the right and ending with SB0 on the left.

  Sun Fire 4810/4800 CPU/Memory boards are populated from right to left, beginning with SB4 on the right and ending with SB0 on the left.

  Sun Fire 3800 system CPU/Memory boards are populated from top to bottom, beginning with SB2 on the top and ending with SB0 on the bottom.
- The serial number label location for the Sun Fire 3800 System (Appendix B-5) was changed after the *Sun Fire 6800/4810/4800/3800 Systems Service Manual* went to press. FIGURE 1 shows the correct serial number label location.

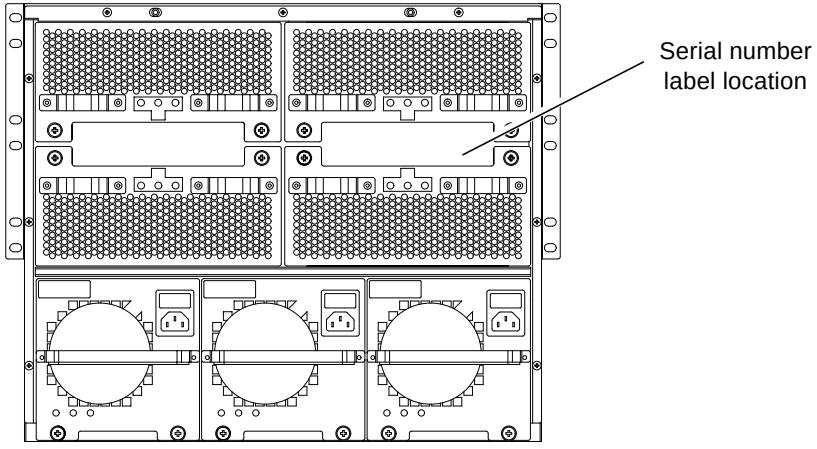

FIGURE 1 Sun Fire 3800 System Serial Number Location—Rear View

Sun Fire 6800 / 4810 / 4800 / 3800 Systems Platform Administration Manual Corrections

- The *Sun Fire 6800/4810/4800/3800 Systems Platform Administration Manual* (Chapter 1 page 13) incorrectly states that there are four banks of memory on each CPU bd and that each bank occupied eight slots. There are actually eight banks of memory on each CPU / Memory board. Each bank of memory requires a CPU. The CPU is the MMU (memory management unit). Each bank of memory occupies four slots.
- Table 1-10 of the *Sun Fire 6800/4810/4800/3800 Systems Platform Administration Manual* (Chapter 1 page 17) incorrectly states that the Repeater boards in grid 0 are RP0, RP2 and in grid 1 RP1 and RP3. The correct information is RP0, RP1 for grid 0 and RP2, RP3 for grid 1.

Known Sun Fire 6800 / 4810 / 4800 / 3800 System Limitations

OBP / POST / System Controller Limitations

`ArrayIndexOutOfBound` Error When Powering on / off Repeater Board From Domain Console (bugid 4411441)

Workaround: Ignore the 'fatal error' warning message

`setkeyswitch on` With An Unknown Log Host Causes Java Exception (bugid 4411441)

If an invalid loghost name is entered using `setupdomain` in the domain shell and `setupplatform` in the platform shell exceptions will be displayed on the system controller console (serial port).

Workaround: Rerun `setupdomain -p loghost` in the domain shell and `setupplatform -p loghost` in the platform shell and provide valid loghost names.

PROM Panic While Rebooting (bugid 4412085)

The lowest processor in the lowest numbered CPU board in the domain cannot have any failed or disabled memory banks.

The lowest processor on a CPU board with 4 processors will be P0 4. The lowest processor on a CPU board two processors with P0 & P1 populated will be P0. The lowest processor on a CPU board with 2 processors with P2 & P3 populated will be P2. The lowest processor on a CPU board with 4 processors, where both P0 & P1 failed will be a rare case. If this occurs, ship the board back to Sun or use it as 2 CPU board.

You can check the memory bank status with the `showcomponent` command from the platform shell after POST runs. For example: showcomponent SB0

```
schostname:SC> showcomponent sb0

Component           Status   Pending  POST   Description
---------           ------   -------  ----   -----------
/N0/SB0/P0          enabled  -        untest empty
/N0/SB0/P1          enabled  -        untest empty
/N0/SB0/P2         enabled  -       pass   UltraSparc III, 750MHz,
8M ECache
/N0/SB0/P3         enabled  -       pass   UltraSparc III, 750MHz,
8M ECache
/N0/SB0/P0/B0/L0    enabled  -        untest empty
/N0/SB0/P0/B0/L2    enabled  -        untest empty
/N0/SB0/P0/B1/L1    enabled  -        untest empty
/N0/SB0/P0/B1/L3    enabled  -        untest empty
/N0/SB0/P1/B0/L0    enabled  -        untest empty
/N0/SB0/P1/B0/L2    enabled  -        untest empty
/N0/SB0/P1/B1/L1    enabled  -        untest empty
/N0/SB0/P1/B1/L3    enabled  -        untest empty
/N0/SB0/P2/B0/L0    enabled  -        pass   512M DRAM
/N0/SB0/P2/B0/L2    enabled  -        pass   512M DRAM
/N0/SB0/P2/B1/L1    enabled  -        untest empty
/N0/SB0/P2/B1/L3    enabled  -        untest empty
/N0/SB0/P3/B0/L0    enabled  -        pass   512M DRAM
/N0/SB0/P3/B0/L2    enabled  -        pass   512M DRAM
/N0/SB0/P3/B1/L1    enabled  -        untest empty
/N0/SB0/P3/B1/L3    enabled  -        untest empty

    **********************
schostname:SC>
```

Workaround: Replace or unpopulate the memory bank in the lowest numbered CPU board in the domain before booting the Solaris operating environment.

System Controller Agent Thread Terminates With Out Of Memory Exception on fully loaded Sun Fire 6800 System (bugid 4415462)

The platform view tables get populated up to the system controller and sometimes up to the cpu components before the system controller snmp agent hangs and an alarm sounds indicating the system controller snmp agent is not responding.

Workaround: Reboot the system controller.

Veritas VxVM Limitations

Cannot Create More Than 119 Volumes In A Disk Group With RAID1+0 Configuration (bugid 4402252)

The maximum size of the private region is 128mb (approximately) if the configuration database is going to be larger than this, it is going to be problem.

Workaround: Create volumes in multiple disk groups when the hard limits on privlen has been reached.

`VxVM_3.1.1` Fails To Install When Multipathing with DMP is Enabled On A Large Configuration (with about 1350 Disks) (bugid 4407854)

Dynamic multipathing works fine with up to 1350 disks. Beyond that vxinstall may fail if dynamic multipathing is enabled.

Workaround: Disks can still be added in small increments (with system reboots between additions).

`vmsa` Freezes On Minimize / Maximize Operations (bugid 4408799)

Workaround: Killing the `vmsa` server and starting it again may solve the problem. Otherwise a system reboot may be necessary.

```
hostname % /opt/VRTSvmsa/bin/vmsa_server -k
hostname % /opt/VRTSvmsa/bin/vmsa_server &
```

On a DMP Configuration With T3, fcp: lun 0 Does Not Failover (bugid 4410561)

Workaround: The following patch versions or later versions of the driver patches will address this issue:

108982-09

108984-08

Large Disk Systems May Require 80 Minutes to Boot With VxVM (bugid 4413496)

In a configuration with about 1800 A5x00 disks configured with VxVM and DMP, boot up time is about 80 minutes. Without the VxVM configuration, the system boot up time is about 15 minutes.

Workaround: None.

`vxinstall` Does not Recognize SENA/T3, Needs License (bugid 4413609)

Even though SENA exists and is readable, vxinstall does not recognize it.

Workaround: Use a temporary VxVM license (available through Veritas).

Sun Management Center Limitations

Refer to the *Sun Management Center 3.0 Software Release Notes* for Sun Management Center related information that is not specific to Sun Fire 6800/4810/4800/3800 systems.

Sun Fire 6800/4810/4800/3800 System Add-ons

If you are supporting a Sun Fire 6800/4810/4800/3800 system, note the following:

- Be sure to install the Jumbo patch as described in the *Sun Management Center 3.0 Platform Update 1 Software Release Notes*.
- This release of Sun Fire 6800/4810/4800/3800 add-ons does not support Slave system controllers.

- Depending on the load on system controller, Sun Management Center platform agent load and the network traffic between the system controller and Sun Management Center platform agent there will be some delay (5 seconds to 60 seconds) for the data pertaining to the system controller to get refreshed in the Sun Management Center console.
- Hardware summary information under the Hardware tab in the Platform Details window is not supported.
- SunMC 3.0 Platform Update 1 is compatible with ScApp version 5.11.3

The Sun Management Center Console Does Not Display Replaced Fan Tray (bugid 493245)

The replaced fan tray will show up in the Sun Management Center console after domain reboot.

Workaround: None.